

IN THE CLAIMS

[Please amend the claims as follows:]

1. (Amended) A method of switching lines in a system comprising a data [MS (100)] mobile station (MS), a plurality of base transceiver systems [(200)] accommodating said data MS through radio lines [(150)], a base station controller [(300)] accommodating said plurality of base transceiver systems, and a data communication network [(1000)] connected to said base station controller, [wherein:]

wherein when said data MS, in the course of transmitting discontinuous data through a before-movement base transceiver system, which is one of said plurality of base transceiver systems, in an area formed by said before-movement base transceiver, moves to an area formed by an after-movement base transceiver system different from said before-movement base transceiver system,

wherein said base station controller:

detects a timing at which data transmission and reception are not performed with said before-movement base transceiver system; and

switches, at said timing, from a line set through said before-movement base transceiver system to a line through said after-movement base transceiver system, which is required after movement.

3. (Amended) A method of switching lines in a system
comprising a data [MS (100)] mobile station (MS) a plurality
of base transceiver systems [(200)] accommodating said data MS
through radio lines [(150)], a base station controller [(300)]
accommodating said plurality of base transceiver systems, and
a data communication network [(1000)] connected to said base
station controller, [wherein:]

wherein when said data MS, in the course of
transmitting discontinuous data through a before-movement base
transceiver system, which is one of said plurality of base
transceiver systems, in an area formed by said before-movement
base transceiver, moves to an area formed by a after-movement
base transceiver system different from said before-movement
base transceiver system,

wherein said base station controller:

detects, one by one, timings at which data from said
data communication network is not received and timings at
which data from said base transceiver system is not received;

obtains a timing at which data is not received both
from said data communication network and said base transceiver
system; and

switches, at said obtained timing, from a line set
through said before-movement base transceiver system to a line
through said after-movement base transceiver system, which is
required after movement.

5. (Amended) A method of switching lines in a system
comprising a data [MS (100)] mobile station (MS), a plurality
of base transceiver systems [(200)] accommodating said data MS
through radio lines [(150)], a base station controller [(300)]
accommodating said plurality of base transceiver systems, and
a data communication network [(1000)] connected to said base
station controller, [wherein:]

wherein when said data MS, in the course of
transmitting discontinuous data through a before-movement base
transceiver system, which is one of said plurality of base
transceiver systems, in an area formed by said before-movement
base transceiver, moves to an area formed by an after-movement
base transceiver system different from said before-movement
base transceiver system,

wherein said base station controller:
receives downlink communication frames from said
data communication network and edges if data is contained in
said received-frames to detect a timing at which data is not
received;

receives uplink communication frames from said base
transceiver system and judges if data is contained in said
received frames to detect a timing at which data is not
received;

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Amid

obtains a timing at which data is not received both from said data communication network and from said base transceiver system; and

switches, at said obtained timing, from a line set through said before-movement base transceiver system to a line through said after-movement base transceiver system, which is required after movement.

8. (Amended) A method of switching lines in a system comprising a data [MS (100)] mobile station (MS], a plurality of base transceiver systems [(200)] accommodating said data MS through radio lines [(150)], a base station controller [(300)] accommodating said plurality of base transceiver systems, and a data communication network [(1000)] connected to said base station controller, [wherein:]

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wherein when said data MS, in the course of transmitting discontinuous data through a before-movement base transceiver system, which is one of said plurality of base transceiver systems, in an area formed by said before-movement base transceiver, moves to an area formed by an after-movement base transceiver system different from said before-movement base transceiver, system,

wherein said base station controller:

receives downlink communication frames from said data communication network and accumulates said frames in an NW-side buffer in said base station controller;

judges if data is contained in each of all the frames accumulated in said NW-side buffer, to detect a timing at which data is not received for a certain period of time;

receives uplink communication frames from said base transceiver system and accumulates said frames in a base-transceiver-system-side buffer in said base station controller;

judges if data is contained in each of all the frames accumulated in said base-transceiver-system-side buffer, to detect a timing at which data is not received for a certain period of time;

obtains a timing at which data is not contained in both said uplink communication frames and said downlink communication frames for a certain period of time; and

switches, at said obtained timing, from a line set through said before-movement base transceiver system to a line through said after-movement base transceiver system, which is required after movement.

14. (Amended) A base station controller in a system comprising a data [MS (100)] mobile station (MS), a plurality of base transceiver systems [(200)] accommodating said data MS

through radio lines [(150)], a base station controller [(300)] accommodating said plurality of base transceiver system, and a data communication network [(1000)] connected to said base station controller, said base station controller comprising:

an [NW] network (NW)-side interface part for receiving communication frames from said data communication network;

an NW-side buffer for accumulating frames received from said NW-side interface part;

a base-transceiver-system-side interface part for receiving communication frames from said base transceiver system; and

a base-transceiver-system-side buffer for accumulating frames received from said base-transceiver-system-side interface part.

15. (Amended) The base station controller according to Claim 14, further comprising:

[a] means for judging existence or nonexistence of data contained in each of the frames accumulated in said NW-side buffer and said base-transceiver-system-side buffer.

16. (Amended) The base station controller according to Claim 15, further comprising:

[a] means for identifying a frame number of each of the frames accumulated in said NW-side buffer and said base-transceiver-system-side buffer; and

[a] means for storing a result of judgement on existence or non-existence of data and a corresponding frame number, in association with each of the frames accumulated in the NW-side buffer and the base-transceiver-system-side buffer.

17. (Amended) A base station controller in a system comprising a data [MS (100)] mobile station (MS), a plurality of base transceiver systems [(200)] accommodating said data MS radio lines [(150)], a base station controller [(300)] accommodating said plurality of base transceiver systems, and a data communication network [(1000)] connected to said base station controller, said base station controller comprising:

an [NW] network (NW)-side interface part for receiving communication frames from said data communication network;

an NW-side buffer for accumulating frames received from said NW-side interface part;

a base-transceiver-system-side interface part for receiving communication frames from said base transceiver systems;

a base-transceiver-system-side buffer for accumulating frames received from said base-transceiver-system-side interface part;

[a] means for judging existence or nonexistence of data contained in each of the frames accumulated in said NW-side buffer and said base-transceiver-system-side buffer;

[a] means for identifying a frame number of each of the communication frames accumulated in said NW-side buffer and said base-transceiver-system-side buffer;

[a] means for storing said identified frame number and said judged existence or nonexistence of data, in association with a frame buffer number of each of the frames stored in the NW-side buffer and the base-transceiver-system-side buffer;

[a] means for extracting timing at which data is not received both from said data communication network and from said base transceiver systems, said extraction being performed based on said association in said means for storing; and

[a] means for extracting each frame number corresponding to said extracted timing.

19. (Amended) A data mobile station (MS) [MS] in a system comprising a data MS [(100)] a plurality of base transceiver systems [(200)] accommodating said data MS through